

In the Abstract

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ABSTRACT

The invention is concerned with a process for denitrification of exhaust gasses of primarily lean operated internal combustion engines, including the following process steps:

- placing in the exhaust gas stream of the internal combustion engine a nitrogen oxide storing and catalytically effective solid which is free of alkali earth metals, alkali metals, ~~and~~ rare earth, silver and silver compounds comprising
  - (a) a porous carrier substance and
  - (b) ~~rhodium~~ a noble metal, which is provided on the porous carrier substance,
- storing the nitrogen oxide during the lean motor operating phase with an air/fuel ratio  $\lambda > 1$ ,
- releasing and catalytically converting the nitrogen oxide during the rich motor operating phase with a air/fuel ratio  $\lambda < 1$   $\lambda > 1$ ,

~~thereby characterized, that wherein~~ the porous carrier substance is comprised of at least 50 wt.% zirconium oxide, ~~titanium oxide, silicon oxide or a zeolite, or a mixture of two or more of these compounds~~ and wherein the noble metal is rhodium